



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 31525-99
www.miamidade.gov/pera

United Solar Ovonic
3800 Lapeer Road
Auburn Hills, MI 48326

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: : UNITED SOLAR OVONIC PHOTOVOLTAIC LAMINATES

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 4.

The submitted documentation was reviewed by Jorge L. Acebo.



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Expiration Date: 11/17/12
Approval Date: 11/17/11
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ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Energy Collectors
Material: ETFE Fluoroplastic

SCOPE: This approves “UNI-SOLAR® PHOTOVOLTAIC LAMINATES” as an auxiliary roof integrated equipment manufactured by United Solar Ovonic, as described in this Notice of Acceptance, designed to comply with the Florida Building Code and the High Velocity Hurricane Zone of the Florida Building Code.

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
UNI-SOLAR® Photovoltaic Laminate Model: PVL-144	5486 mm (216”) length 394 mm (15.5”) width 4 mm (0.2”) depth (cell panel assembly) 14 mm (0.6”) depth (terminal housing assembly)	UL 1703	A self adhering, flat-plate photovoltaic module which converts power in the visible portion of the electromagnetic spectrum to DC power.
UNI-SOLAR® Photovoltaic Laminate Model: PVL-136	5486 mm (216”) length 394 mm (15.5”) width 4 mm (0.2”) depth (cell panel assembly) 14 mm (0.6”) depth (terminal housing assembly)	UL 1703	A self adhering, flat-plate photovoltaic module which converts power in the visible portion of the electromagnetic spectrum to DC power.
UNI-SOLAR® Photovoltaic Laminate Model: PVL-68	2849 mm (112.1”) length 394 mm (15.5”) width 4 mm (0.2”) depth (cell panel assembly) 14 mm (0.6”) depth (terminal housing assembly)	UL 1703	A self adhering, flat-plate photovoltaic module which converts power in the visible portion of the electromagnetic spectrum to DC power.

MANUFACTURING LOCATIONS:

1. Tijuana, Baja California, Mexico

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Underwriter Laboratories, Inc.	E182242	UL 790	02/21/02
		UL 991	04/18/02
		UL 1703	07/02/02
Trinity ERD	U11120.08.08-R2	TAS 114 (H)	04/21/09
	U12640.03.09	TAS 114 (H)	03/10/09
	U33270.11.10	ASTM G 155	12/08/10
		ASTM D 638	
		ASTM D 903	
		FM 4470 (5.5)	



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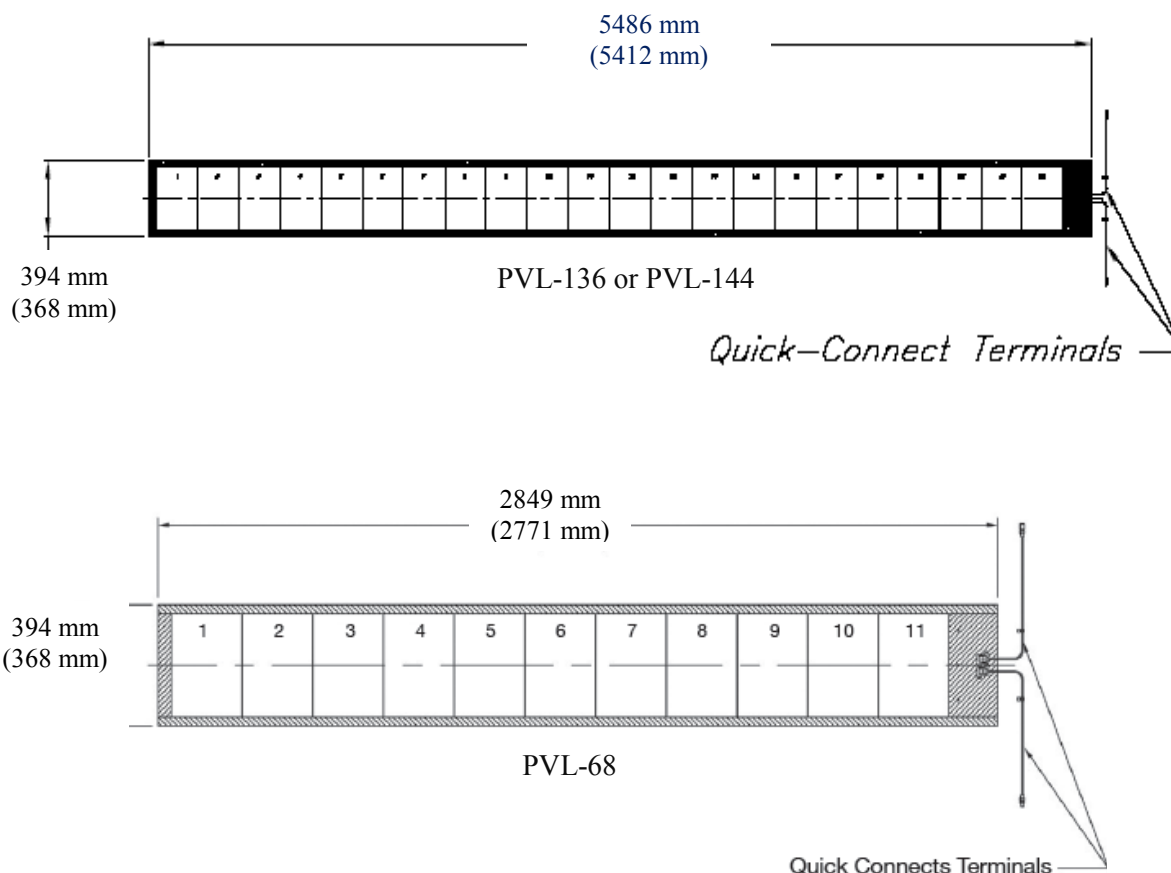
PHYSICAL PROPERTIES OF COMPONENTS

Trade names: **UNI-SOLAR® PHOTOVOLTAIC LAMINATES: PVL-68, PVL-136, PVL-144**
 Specifications: **UL 1703**

Description: A self adhering, flat-plate photovoltaic module may be applied to;

- Aluminum Metal Panels.
- Coated Steel Metal Panels.
- Galvanized Steel Panels

Systems Approvals: Installation of the Photovoltaic Laminates shall comply with Uni-Solar specific product installation specifications with the limitations specified herein. Photovoltaic Laminates shall be installed only on approved structural metal roof systems or non-structural metal roof systems that have a valid Miami-Dade NOA approval. Installation of the metal panels and the corresponding maximum design pressure rating shall be as specified in the applicable Miami-Dade NOA approval for the metal roof system.



*Note: All Measurement of PVL are in millimeters (drawings are not to scale)

BUILDING PERMIT REQUIREMENTS:

1. Any other documents required by the Building Official or applicable Building Code in order to properly evaluate the installation of this system.

LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire rating of this product.
2. Always handle and install Uni-Solar Photovoltaic Laminates according to the Installation Manual and the NOA, using the methods, tools and materials shown within these documents.
3. The photovoltaic system described within this Notice of Acceptance document shall be installed by licensed roofing contractor holding an applicator's certificate from Uni-Solar. A copy of the certification shall be provided to the building official during the application for a building permit. Submission of these documents, as well as the proper application and installation of all materials shall be the sole responsibility of the contractor.
4. All projects have to be reviewed and approved by Uni-Solar before installation begins. Any defects in the roofing substrates shall be corrected by the contractor.
5. Any installation defect is the sole responsibility of the contractor. Uni-Solar shall not be held liable for any defects resulted from poor workmanship of the installation.
6. UNI-SOLAR[®] Photovoltaic Laminates shall not be applied in inclement weather conditions.
7. UNI-SOLAR[®] Photovoltaic Laminates shall be properly labeled for manufacturing traceability.
8. All electrical components and wiring installations shall be in compliance with applicable Building Codes.
4. UNI-SOLAR[®] Photovoltaic Laminates shall not be installed in areas where drains or roof penetrations exist.
5. All limitations and maximum design pressure ratings of the roof system the UNI-SOLAR[®] Photovoltaic Laminates is applied onto shall apply.
6. All products listed herein shall have an unannounced follow-up quality control program from an approved listing agency. Follow up test results shall be made available to Miami-Dade Product Control upon request.
7. Change in materials, use, or manufacture of any of the products listed herein shall be cause for termination of this Notice of Acceptance.
8. UNI-SOLAR[®] Photovoltaic Laminates shall be applied in strict compliance with this NOA approval and with all manufacturers' published application instructions in accordance with all limitations specified herein.
9. UNI-SOLAR[®] Photovoltaic Laminates may be used with any approved roof covering Notice of Acceptance listing UNI-SOLAR[®] Photovoltaic Laminates as a component part of an assembly in the Notice of Acceptance. If UNI-SOLAR[®] Photovoltaic Laminates are not listed; a request may be made to the Authority Having Jurisdiction (AHJ) or Miami-Dade County Product Control for approval provided that appropriate documentation is provided to detail compatibility of the products, wind uplift resistance, and fire testing results.
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.
11. All approved products listed herein shall bear the imprint or identifiable marking of the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.

MIAMI-DADE COUNTY
APPROVED

END OF THIS ACCEPTANCE

MIAMI-DADE COUNTY
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